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COMPUTER-IMPLEMENTED SYSTEM FOR HUMAN RESOURCES **MANAGEMENT**

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This application claims the benefit of United States Provisional Patent Application No. 60/211,044, filed June 12, 2000.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 provides a block diagram of an exemplary system in accordance with the present invention.

Figure 2 illustrates a process for testing and evaluating job applicants in accordance with an embodiment of the present invention.

Figure 3 depicts a hiring procedure in accordance with one embodiment of the invention.

Figure 4 is a block diagram of a process employing feedback.

Figure 5 diagrams an online system in accordance with one embodiment of the invention.

Figure 6 shows an example of a web-based presentation for a screening solution.

Figure 7 shows an example of a stack ranked table.

Figure 8 shows an example of a screening solution question presented to an applicant taking a screening solution test over the Internet.

Figure 9 shows an example of a structured interview guide for use in an interview solution.

Figure 10 illustrates procedural steps that may be followed in a web-based applicant system according to an embodiment of the present invention.

Figure 11 illustrates procedural steps that may be followed in a web-based selection solution according to an embodiment of the present invention.

Figure 12 illustrates procedural steps that may be followed by an employer according to an embodiment of the present invention.

Figure 13 illustrates a human capital management life-cycle.

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DETAILED DESCRIPTION

A system for testing a job applicant provides a computerized stack ranking of multiple applicants, predictive of the comparative levels of successful job performance. The predictive stack ranking may be used as a dynamic interactive filter with a pool of applicants over the course of the evaluation or employment process. The system may utilize a communications network to communicate between an applicant terminal and a system server.

The system may be used for example for screening, selecting, retaining, assigning, or analyzing the job applicant. The job applicant can for example be a new job applicant, an employee seeking to retain a job, an employee seeking a different job in the same organization, or an employee being evaluated for retention, re-assignment, or promotion. Applicants may or may not know they are being evaluated.

Once an applicant becomes an employee, the system may collect data regarding the employee for use in a feedback loop informing the online hiring process and improving the accuracy of the predictive stack ranking. For example, the data may indicate the employer's rating of the employee's actual job performance. Such a rating can be cross-checked against the answers that the employee gave during the application process. The cross-checking can be used as feedback to refine the questions and evaluation criteria used at each stage of the hiring process. For example, the cross-checking may be analyzed to select from among many questions a small subset having high predictive value. The small subset can then be used in a quick initial screening stage. Or, the small subset can be given greater weight than other questions in a computerized stack ranking of candidates.

Figure 1 provides a block diagram of an exemplary system in accordance with the present invention. A job applicant can use applicant terminal 102 to communicate over network 104 with system server 106. Applicant terminal 102 may for example be a telephone handset, a personal computer, a workstation, a handheld wireless device such as those marketed under the trademarks PALM or HANDSPRING, or a Wireless Application Protocol enabled device such as a mobile phone. Network 104 may for example be the Internet, the World Wide Web, a wide area network, a local area network, a telephone network, a wireless communication network, a combination thereof, or any other link capable of carrying communications between an applicant terminal and a server.

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System server 106 employs a testing computer program 108 and has access to a scoring database 110. System server 106 communicates with applicant terminal 102 in accordance with instructions from testing computer program 108.

System server 106 may communicate with employer server 112 over network 104 or over direct link 114. System server 106 is shown as a unitary server, but may be a distributed computing platform.

An applicant terminal may be remote from, or co-located with, system server 106 and/or employer server 112. For example, applicant terminal 102 may be located at a job applicant's home, applicant terminal 116 may be located at a job fair or employment office, and applicant terminal 120 may be located at an employer's location.

Partner server 121 may be linked to network 104 and system server 106 to facilitate integration of a business partner seeking to participate in the system of Figure 1.

System server 106 may pose questions to a job applicant located at an applicant terminal, receive responses from the job applicant, and score the answers in accordance with scoring database 110. The scoring may take place in real time, i.e., while the applicant is still online, and may be reported in the form of a comparative stack ranking of multiple applicants. The stack ranking may be delivered from system server 106, over either network 104 or direct link 114, to employer server 112.

Scoring of each answer by system server 106 may be instant, i.e., before the next question is answered. Thus, adaptive testing techniques may be implemented over network 104. For example, the answers given by an applicant at applicant terminal 102 to questions propounded early in a test may determine which questions are propounded by system server 106 to the applicant later in the same test. In addition, if an applicant at terminal 102 provides an unacceptable answer to a disqualifying "knock-out" question, server 106 may immediately terminate the test.

These same adaptive testing principles may be applied to a software program used to support a real time interview, either in person or over a communications network. For example, an employer conducting an oral interview in person or over a telephone can enter a candidate's oral answer into employer terminal 124, which then communicates the answer to system server 106, which in turn suggests via employer terminal 124 the next question for the employer to ask the interviewee.

The system may test an online applicant for any competency desired, in any sequence. The tested competencies may be abilities, traits, knowledge, skills, etc., that have been proven relevant to and predictive of successful job performance. By way of example and not limitation, the following competencies may be tested:

- 5 1. dependability
 - 2. agreeableness
 - 3. critical thinking
 - 4. problem solving ability
 - 5. talkativeness
- 10 6. assertiveness
 - 7. gregariousness
 - 8. persuasiveness
 - 9. achievement
 - 10. education
- 15 11. experience
 - 12. customer service orientation
 - 13. customer focus
 - 14. conscientiousness
 - 15. self-confidence
- 20 16. motivation
 - 17. revenue focus
 - 18. cognitive ability
 - 19. leadership
 - 20. decision making
- 25 21. flexibility
 - 22. commitment
 - 23. learning ability
 - 24. dedication
 - 25. tenacity
- 30 26. number of jobs held
 - 27. length of time in job(s)
 - 28. working with information

- 29. supervisory potential
- 30. judgment
- 31. leadership
- 32. coaching skills
- 5 33. teamwork
 - 34. interpersonal skills
 - 35. business leadership
 - 36. leadership motivation
 - 37. self-leadership
- 10 38. interpersonal leadership
 - 39. communication skills
 - 40. management potential
 - 41. likelihood of retention
 - 42. self-control
- 15 43. energy
 - 44. executive potential
 - 45. listening orientation
 - 46. language skills (English, etc.)
 - 47. verbal reasoning
- 20 48. spatial ability
 - 49. interest
 - 50. motivation

Typically, system server 106 tests for certain ones of the competencies that have been proven to be predictive of successful performance of the type of job for which the applicant is being considered. The results of the testing are tabulated in a stack ranked table. The stack ranked table may rank a number of applicants against each other and list them in order, from first to last. The table may also present other information for each applicant. The other information may include, by way of example and not limitation:

- 1. Name
- 30 2. Identifying number (e.g. social security number).
 - Score achieved at various stages for various competencies.
 - 4. Recommendation (or not) to continue the hiring process beyond each stage

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- 5. Link to application information (e.g. address, resume details)
- 6. Contact information (phone number, e-mail address, mailing address, etc.)
- 7. Date of application
- 8. Success or failure in complying with knockout requirements for the job
- 5 9. Screening solution scores, presented as percentiles
 - 10. A calculated recommendation to proceed or not to proceed with the applicant
 - 11. Results (by competency) of the selection solution
 - 12. Link to allow manual entry of the test answers if not done on computer directly by the applicant
- 13. A calculated recommendation to hire or not hire based on a weighted overall score of selection competencies (or other factors the hiring company wishes to use and that are approved as statistically valid and legally defensible)
 - 14. Additional columns for storage of data from a structured behavioral interview
 - 15. Additional columns for storage of data from other decision-making processes such as drug testing, reference checks, or medical exams.

A process for testing and evaluating job applicants may be described with reference to Figure 2. Generally, applicant testing 201 includes providing a test to a job applicant and scoring the applicant's answers. The test may be administered online or it may be administered manually off-line. Scores are entered into a system for calculating a stack ranked table. Predictive stack ranking 202 generally includes ranking a job applicant against other job applicants in order from first to last or other comparative ranking. The other job applicants may be current job applicants, past job applicants, or fictional job applicants.

Figure 3 depicts a hiring procedure in accordance with one embodiment of the invention. Announcement 302 may be an online job announcement such as a web page with an "apply now" hyperlink icon. The web page may reside on an employer's website or an employment agency website, for example. Or, an online job announcement may be a recorded announcement on a menu-driven telephone voice processing system.

Alternatively, announcement 302 may be an offline job announcement such as a newspaper advertisement.

In response to announcement 302, an interested job applicant requests administration of screening test 304. Screening test 304 may be remotely administered

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and scored online, with the scores being automatically provided to predictive stack ranking 306. Alternatively, screening test 304 may be administered manually with paper and pencil, and then graded by hand or machine, with the scores being provided to predictive stack ranking 306. The predictive stack ranking may for example be constructed by system server 106 or employer server 112.

Predictive stack ranking 306 totals the graded answers according to particular competencies known to be relevant to successful job performance. Predictive stack ranking 306 may be administered by a computer processor located at system server 106, for example. Predictive stack ranking 306 may give different weight to different questions, and may at any stage immediately disqualify an applicant providing an unacceptable answer to a "knock-out" question. Predictive stack ranking 306 may rank the applicant in order against other job applicants in a table. Predictive stack ranking 306 may be used to decide which applicants to invite for the next stage, selection test 308.

Selection test 308 is preferably conducted under supervised conditions. For example, selection test 308 may be administered in person. An in-person test may take place at a job fair, an employer's location, a job site, or an employment agency. An in-person test may include verification of the job applicant's identity, such as by examination of a photo identification document produced by a test-taker. Selection test 308 may be administered online or manually. Supervised conditions typically include observation of the test-taker during administration of the test. The answers to selection test 308 are graded and the results are incorporated in predictive stack ranking 306.

Predictive stack ranking 306 may then update a previously created entry for the applicant and rank or re-rank the applicant in order against other job applicants. After this is accomplished, the highest ranking applicants may be invited for interview 310.

Interview 310 may be structured or unstructured, online or in person. If interview 310 is structured, a program leads the interviewer through the interview by suggesting questions one at a time. The program may be a list of questions written on paper or it may be a computer program resident for example in system server 106. The program suggests questions that are predetermined to be valid, i.e., proven to be associated with successful job performance and legally permitted. The interviewer can input the answers and/or a score for the answers, either after each answer or at the conclusion of the interview. This can be done via employer terminal 124, for example.

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Interview 310 results in an interview score being provided to predictive stack ranking 306. Predictive stack ranking 306 is revised to reflect the interview score. In particular, the relative rank of the job applicants is reassessed.

Figure 4 is a block diagram of a process employing feedback. Test design 402 is initially performed using industry-accepted standards. Test administration 404 tests and scores job applicants and/or incumbents. Employee performance evaluation 406 measures actual job performance of the applicant or incumbent after holding the job for a period of time. This information is fed back to test design 402 and/or test administration 404. Test design 402 may be revised to delete questions which were not predictive of successful job performance. This can be done for example by deleting questions whose answers bore no relation to performance evaluation 406 for a statistically valid sample. Test administration 404 may be revised by adjusting the weight given to certain questions or answers that showed an especially strong correlation to employee performance evaluation 406. For example, if test administration 404 is associated with predictive stack ranking 306, feedback from employee performance evaluation 406 may help determine how various job applicants are comparatively ranked against each other.

Figure 5 diagrams an online computer based system 500 in accordance with one embodiment of the invention. Box 502 represents a job vacancy with a requirement for an online screening and selection solution. The vacancy can come to the attention of a potential job applicant in a number of ways.

For example, box 504 represents an online application via a hiring company's own website. A company offering a job may post a vacancy announcement on the company's website and invite job seekers to apply by clicking on an icon labeled "apply here" or the like. Box 506 represents a similar posting on an online job board. Box 508 represents candidates given a Uniform Resource Locator (URL) directly by the company. This may occur when the company offering a job identifies a potential candidate. Box 510 represents a media advertisement including a URL for a job. Thus, job seekers observing the advertisement can direct their browsers to the indicated URL.

At job fair 512, job seekers may be provided a URL associated with the company or the particular vacancy. Paper-and-pencil measures could also be used at job fairs and entered into the system. A computer terminal may be provided for use of job seekers at job fair 512, enabling job seekers to participate in the online system. Box 514 represents

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an executive search via a recruiter network. Job seekers relevant to the search are identified in recruitment firm applicant database 516. Database 516 can link to a URL associated with the job.

Preferably, no matter how a potential applicant becomes aware of or identified for a job opening in system 500, the potential applicant is considered at decision 520. Decision 520 asks whether applicant has completed the required screening solution 524. If not, the applicant at box 522 is given via e-mail, mail, or in person, a URL for assessment. For example, system 500 may send an e-mail message to a potential applicant, the e-mail message inviting the potential applicant to apply for vacancy 502 by directing a browser to a screening solution URL provided in the e-mail message. Alternatively, when a potential applicant is visiting a website at which decision 520 determines that the required screening solution has not been completed, the website host can provide a link to a web page identified by the screening solution URL. Decision 520 may be based on a potential applicant's name, e-mail address, and/or other identifying information.

Screening solution 524 is administered via the Internet and is hosted at the screening solution URL mentioned above. Screening solution 524 asks screening questions to ascertain if the applicant has the basic qualifications to do the job. These are based on questions typically asked by recruiters but which are statistically validated over time to ensure they are legally defensible and predictive. The questions may include a combination of biodata and personality measures. They may include self-assessments of skill levels appropriate to the job requirements. Screening solution 524 requires applicants to transmit elicited information over the Internet. A possible example of a web-based presentation for screening solution 524 is illustrated in Figure 6. Screen shot 600 shows a portion of the presentation.

Once completed, screening solution 524 provides applicant feedback 540 and conveys applicant details and screening scores to stack ranked table of applicants 530. Applicant feedback 540 may provide a message to the online applicant indicating that the screening solution is complete, that the applicant has passed or failed the screening stage, and that the applicant may or may not be contacted in due course. Other information may also be provided to the applicant in the feedback pages, like a realistic job preview, recruiter phone number, scheduling information, etc.

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Once an applicant has completed the screening solution, system 500 ranks the applicant in comparative order against other applicants in stack ranked table of applicants 530. A certain number or percentage of applicants in table 530 will be chosen for further consideration. For example, the applicants ranking among the top five of all applicants ranked in table 530 may be chosen for advancement in the system at this juncture. Information identifying the chosen applicants will be included on a "short list" as indicated by box 536.

The short list chosen at box 536 is transmitted to selection solution 538, at which the advancing applicants are invited to answer selection questions. Selection solution 538 asks additional questions and requires an advancing applicant to input answers. Preferably, the applicant completes selection solution 538 while sitting at a terminal located at one of the company's locations. The terminal communicates over the Internet with a website set up to administer the selection solution.

At the conclusion of selection solution 538, applicant feedback 540 is provided from the website to the applicant, and applicant details and scores 541 are incorporated in stack ranked table 530. Feedback 540 may optionally include a sophisticated report on the applicant's strengths and weakness. The applicant may then be directed to an appropriate web page chosen by the hiring company. One page may indicated successful completion and a second page may indicate failure. The appropriate web page may suggest other openings appropriate to the applicant's test responses and may provide hyperlinks the applicant can use to initiate the application process for these other openings.

Once stack ranked table 530 re-ranks the applicants as a result of selection solution 538, some applicants are invited to participate in interview solution 542. For example, the top three applicants as ranked by table 530 after selection solution 538 may be invited for an in-person interview. Because the selection solution is preferably in instant communication with stack ranked table 530, the interview invitation may be extended immediately at the conclusion of the selection solution.

Interview solution 542 is preferably a structured interview, with questions provided via the Internet to the interviewer at the company's location. The interviewer reads the provided questions and reports a score over the Internet from the company's location for incorporation in stack ranked table 530. Benchmark performance anchors may assist the interviewer in grading the applicant's responses.

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Interview solution 542 can be designed according two exemplary models. In a first model, an employer is provided with standard interview guides for several job types as well as the competency templates for these types so that the employer can build variations to meet specific needs. In a second model, an employer can build new interview guides and new competency templates. In the second model, the employer has access to the full array of work-related competencies and associated questions in a comprehensive question bank.

In ranking applicants, stack ranked table 530 may consider a combination of different biographical, personality, behavioral, and other appropriate information and competencies. In addition to the comparative ranking, table 530 may indicate for each applicant a yes/no recommendation, a percentage likelihood of successful job performance, biographical information not used for evaluative purposes, and so forth.

Stack ranked table 530 may be developed by grading the various solution stages with a computer implementing the following algorithm. First, search for disqualifying answers to "knock-out" questions. Second, give points for answers matching those of the previously hired candidates who achieved a successful performance evaluation. Third, deduct points for answers matching those of the previously hired candidates who received an unsuccessful performance rating. Fourth, multiply the added or subtracted points by any weighting assigned each question. Fifth, sum the points for all questions related to a given competency. Sixth, compare the summed points for each competency to norms of either the job-holders in the company or a wider population. Seventh, predict performance of the applicant as a worker in the job, based on the business outcomes identified by the hiring company and the competencies that contribute to those outcomes.

A final selection is made based on stack ranked table 530. Preferably, the selection is transmitted over the Internet to the company, enabling the company to make an offer to the selected applicant(s). For example, if there is only one opening, an offer may be extended to the applicant ranked highest by stack ranked table 530. If the applicant accepts the offer, the applicant is employed by the company. If the applicant declines, the next highest ranked applicant in stack ranked table 530 is offered the job. If a plural number of openings exist, that number of applicants may be selected off the top of stack ranked table 530 and offered the job. If one of the applicants declines, the next highest

ranked applicant in stack ranked table 530 is offered the job. Data from stack ranked table 530 is forwarded to data warehouse 534.

The performance of successful applicants is monitored during their employment. At box 550, performance data for successful applicants are collected at a later date, and sent to data warehouse 534.

Data collected at data warehouse 534 are used for research and development and for reporting purposes. For example, functions enabled by storing comprehensive data generated by system 500 may include:

- a. Storage of question level responses from applicants for jobs. This can be used for re-checking of applicant information (auditing etc.) and for research to develop new solutions and questions.
- b. Reporting on Equal Employment Opportunity Commission requirements. Data on ethnicity etc. can be stored to enable an employer to comply with reporting requirements to government agencies.
- c. Source of data for designing new solutions including data on the nature of the job and the competencies that are required by the role (job analysis). This data is collected using online assessments.
- d. Source of data for statistical research on correlation between the solutions and their predicted outcomes for applicants, and the actual outcomes for employees who were hired (validation studies).
- e. Design of solutions other than recruitment related solutions.
- f. Reporting of usage volumes for billing and financing accounting purposes.

Because system 500 preferably uses instant communications, adaptive testing techniques may be implemented online. An applicant's failure to overcome hurdles in a given solution will deliver a different path through the solution than that of a successful applicant. The degree of advancement of a given applicant through system 500 may result in different charges to the company from a solutions provider. For example, a solutions provider that hosts a website supporting screening solution 524, selection solution 538, and interview solution 542 may charge the hiring company the following amounts: one dollar for every applicant completing only the screening solution, five dollars for every applicant advancing only to the end of the selection solution, ten dollars for every

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applicant rejected after the interview solution, twenty dollars for every applicant offered a job, and fifty dollars for every applicant accepting an offer.

In practice, any of the various stages (screening solution 524, selection solution 538, and interview solution 542) may be skipped, re-ordered, combined with other stages, or eliminated. Or, a short telephone interview may be structured early in the process to quickly screen applicants.

In a preferred embodiment, the questions to be asked at the various stages are selected for a particular type of job being offered in accordance with a proven relationship with desired business outcomes. Business outcomes can for example include: level of sales, customer satisfaction, quality measures such as fault rates, retention and tenure of employment, time keeping, learning ability, progression to more senior roles over time, and supervisor ratings of behavioral success. The particular type of job is defined in conjunction with the U.S. Department of Labor "O*NET" classification system. Some types of jobs might include customer service, technical, professional, or managerial. Various competencies are determined to be associated with desired business outcomes for a given type of job. These competencies are tested for at various solution stages with appropriate questions.

The appropriate competencies, questions, scoring, weighting, and ranking factors for a new job can be designed from historical tests for existing jobs, by applying statistical techniques and using the gathering of data on the Internet to ensure rapid validation of the new assessment solution. Confirmatory job analysis is used to determine the appropriateness of solutions for a particular job.

Figure 7 shows an example of a stack ranked table. Computer screen shot 700 illustrates a sample stack ranked table 730 for a customer service job. Various tabs permit viewing of data generated by each solution stage. Tab 702 reveals data 703 from a screening solution, tab 704 reveals data 705 from a selection solution, tab 706 reveals data 707 from an interview solution, and tab 708 reveals all results. In screen shot 700, tab 708 is selected.

Section 709 of screen shot 700 shows general information about each applicant, including current rank 710, a link 712 to application information (not shown), last name 714, first name 716, and application date 718.

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Screening solution data 703 includes an indication 720 of whether each applicant successfully passed the knockout requirements for the job. Data 703 also includes scores on certain competencies such as educational and work related experience 722, customer service orientation 724, and self-confidence 726. Column 728 indicates whether each applicant is recommended to advance beyond the screening stage.

Selection solution data 705 includes scores on certain competencies such as customer focus 732, conscientiousness 734, and problem solving 736. Column 738 indicates whether each applicant is recommended to advance beyond the selection stage.

Additional information (not shown) may include columns for storage of data from other decision-making processes such as drug testing, reference checks, or medical exams.

Figure 8 shows an example of a screening solution question presented to an applicant taking a screening solution test over the Internet. In screen shot 800, simulated customer contact record 802 is presented to the applicant. The applicant is asked question 804, and is required to click on a circle next to one of the answers. Question 804 may test for a competency in working with information, for example.

Figure 9 shows an example of a structured interview guide for use in an interview solution. As illustrated, the interview guide is being presented online on a computer screen to an interviewer conducting an interview with an applicant. Screen shot 900 shows interview item 902 for a sample customer service job. The customer service job opening is for a call center position, and revenue focus has been identified as a relevant and predictive competency. Item 902 elicits from the applicant a situation 904, the applicant's behavior 906 in the situation, and the outcome 908 reported by the applicant. The interviewer can grade the applicant's responses to item 902 by marking a score 910 from 1 to 10.

Figure 10 illustrates procedural steps that may be followed in a web-based applicant system according to an embodiment of the present invention.

Figure 11 illustrates procedural steps that may be followed in a web-based selection solution according to an embodiment of the present invention. For example, these steps may follow those illustrated in Figure 10.

Figure 12 illustrates procedural steps that may be followed by an employer according to an embodiment of the present invention.

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The following tables provide examples of screening solutions and selection solutions designed for different types of jobs. The tables show components (competencies) shown to be relevant to successful performance of each job type. In the tables, some components are considered required, and others are considered optional.

Table One may be used for entry level and general skill jobs:

Table One: Entry/General Skilled Solutions				
	Solution	Definition	Items	
	Component			
Screening	7 - 10 Minutes			
Required	Educational and	Measures potential for success in	15	
	Work-Related	entry-level jobs across industry		
	Experience	type and functional area. Scores		
		on Education and Work-Related		
		Experience are derived from		
		candidates' responses to		
		questions regarding		
		developmental influences, self-		
		esteem, work history and work-		
		related values and attitudes.		
	Self-Confidence	This component references: belief	7	
		in one's own abilities and skills		
		and a tendency to feel competent		
	·	in several areas.		
Optional	Decision Making/	Measures potential for success in	8	
	Flexibility	entry level positions. Scores on		
		Decision Making and Flexibility are		
		derived from candidates'		
		responses to questions regarding		
		developmental influences, self-		
		esteem, work history and work-		
		related values and attitudes.		

	Table One: Entry/General Skilled Solutions			
	Solution	Definition	Items	
	Component			
Selection	23 - 35 Minutes		1	
Required	Conscientiousness	This component is designed to	65	
		predict the likelihood that		
		candidates will follow company		
		policies exactly, work in an		
		organized manner, return from		
		meals and breaks in the allotted	·	
		time, and keep working, even		
		when coworkers are not working.		
	Retention Predictor	Measures commitment,	44	
		impulsiveness, responsibility, and		
		motivation. It predicts the		
		likelihood that a new hire will		
		remain on the job for at least three		
		months.		
Optional	Learning Ability	This component measures the	54	
		tendency to efficiently and	(12 minute timer)	
		effectively use numerical and		
		analytical reasoning. This		
		competency is characterized by		
		the ability to learn work-related		
		tasks, processes, and policies.		

Table Two may be used for customer service jobs:

	Table Two—Customer Service Solution				
	Solution	Definition	Items		
	Component				
Screening	g 8 - 10 Minutes				
Required	Educational and	Measures potential for success in	15		
	Work-Related	customer service jobs. Scores on			
	Experience	Education and Work-Related			
		Experience are derived from			
		candidates responses to questions			
		regarding developmental influences,			
		self-esteem, work history and work-			
		related values and attitudes.			
	Customer Service	Designed to predict the likelihood that	20		
	Orientation	candidates will show persistent			
		enthusiasm in customer interaction,			
		apologize sincerely for inconveniences			
		to customers, be patient with			
		customers, tolerate rude customers			
		calmly, and search for information or			
		products for customers.			
Optional	Self-Confidence	This component references: belief in	7		
		one's own abilities and skills and a			
		tendency to feel competent in several			
		areas.			

	Table Two—Customer Service Solution				
	Solution	Definition	Items		
	Component				
Selection	17 - 29 - 37 Minւ				
Required	Customer Focus	Designed to predict the likelihood that	32		
		candidates will show persistent			
		enthusiasm in customer interaction,			
		apologize sincerely for inconveniences			
		to customers, be patient with			
		customers, tolerate rude customers			
		calmly, and search for information or			
		products for customers.			
	Conscientiousness	This component is designed to predict	65		
		the likelihood that candidates will			
		follow company policies exactly, work	•		
		in an organized manner, return from			
		meals and breaks in the allotted time,			
		and keep working, even when			
		coworkers are not working.			
Optional	Learning Ability	This component measures the	54		
		tendency to efficiently and effectively	(12 minute		
		use numerical and analytical	timer)		
		reasoning. This competency is			
		characterized by the ability to learn			
		work-related tasks, processes, and			
		policies.			
Optional	Retention Predictor	Measures commitment, impulsiveness,	44		
		responsibility, and motivation. It			
		predicts the likelihood that a new hire			
		will remain on the job for at least three			
		months.			

Table Three may be used for customer service jobs involving sales:

	Table ThreeCustomer Service Solution: Sales Positions				
	Solution	Definition	Items		
	Component				
Screening	9 - 15 Minutes	3			
Required	Educational and	Measures potential for success in	15		
	Work-Related	customer service jobs. Scores on			
	Experience	Education and Work-Related			
		Experience are derived from			
		candidates responses to questions			
		regarding developmental influences,	•		
		self-esteem, work history and work-			
		related values and attitudes.			
	Customer	This component is designed to predict	20		
	Service	the likelihood that candidates will show			
	Orientation	persistent enthusiasm in customer			
		interaction, apologize sincerely for			
	·	inconveniences to customers, be			
		patient with customers, tolerate rude			
		customers calmly, and search for			
		information or products for customers.			
Optional	Sales Potential	Designed to predict the likelihood that	23		
		candidates will suggest or show			
		alternative solutions based on			
		customer needs, direct conversation			
		toward a commitment/ order/ sale,			
		show confidence even after a hard			
		refusal/rejection, and strive to close a			
		transaction every time.			

	Table ThreeC	ustomer Service Solution: Sales Posi	tions
	Solution	Definition	Items
	Component		
Selection	15 - 27 Minute	es .	
Required	Sales Potential	Designed to predict the likelihood that	60
		candidates will suggest or show	
		alternative solutions based on	
		customer needs, direct conversation	
		toward a commitment/ order/ sale,	
		show confidence even after a hard	
		refusal/rejection, and strive to close a	
		transaction every time.	
	Customer Focus	Designed to predict the likelihood that	32
		candidates will show persistent	
		enthusiasm in customer interaction,	
	·	apologize sincerely for inconveniences	
		to customers, be patient with	
		customers, tolerate rude customers	
		calmly, and search for information or	
		products for customers.	
Optional	Learning Ability	This component measures the	54
		tendency to efficiently and effectively	(12 minute timer)
		use numerical and analytical	
		reasoning. This competency is	
		characterized by the ability to learn	
		work-related tasks, processes, and	
		policies.	
L	<u> </u>		

Table Four may be used for customer service jobs in a call center:

Table FourCustomer Service Solution: Call Center Positions				
	Solution	Definition	Items	
	Component			
Screening	9 - 11 minutes		-	
Required	Educational and	Measures potential for success in	15	
	Work-Related	customer service jobs. Scores on		
	Experience	Education and Work-Related		
		Experience are derived from		
		candidates responses to questions		
		regarding developmental influences,		
		self-esteem, work history and work-		
		related values and attitudes.		
	Customer Service	Designed to predict the likelihood that	20	
	Orientation	candidates will show persistent		
0		enthusiasm in customer interaction,		
		apologize sincerely for inconveniences		
		to customers, be patient with		
		customers, tolerate rude customers		
		calmly, and search for information or		
		products for customers.		
Optional	Self-Confidence	This component references: belief in	7	
		one's own abilities and skills and a		
		tendency to feel competent in several		
		areas.		

7	Table FourCustomer Service Solution: Call Center Positions		
	Solution	Definition	Items
	Component		
Selection	16 - 31 – 39 Min	utes	
Required	Customer Focus	This component is designed to predict	32
		the likelihood that candidates will show	
		persistent enthusiasm in customer	
		interaction, apologize sincerely for	
		inconveniences to customers, be	
		patient with customers, tolerate rude	
		customers calmly, and search for	
		information or products for customers.	
	Conscientiousness	This component is designed to predict	65
		the likelihood that candidates will	
		follow company policies exactly, work	
ŧ		in an organized manner, return from	
		meals and breaks in the allotted time,	
		and keep working, even when	
		coworkers are not working.	
	Working with	This component is designed to predict	30
	Information	success in customer service call-	(15 minute
		center jobs by assessing a candidate's	timer)
		ability to retrieve information and use it	
		in order to solve problems.	
Optional	Retention Predictor	Measures commitment, impulsiveness,	44
		responsibility, and motivation. It	
		predicts the likelihood that a new hire	
		will remain on the job for at least three	
		months.	

Table Five may be used for customer service jobs in a call center involving sales:

Table FiveCustomer Service Solution: Call Center Sales Positions			
-	Solution	Definition	Items
	Component		
Screening	9 - 15 Minutes	5	
Required	Educational and	Measures potential for success in	15
	Work-Related	customer service jobs. Scores on	
	Experience	Education and Work-Related	
		Experience are derived from	
		candidates' responses to questions	
		regarding developmental influences,	
		self-esteem, work history and work-	
•		related values and attitudes.	
	Customer	Designed to predict the likelihood that	20
	Service	candidates will show persistent	
	Orientation	enthusiasm in customer interaction,	•
		apologize sincerely for inconveniences	
		to customers, be patient with	,
		customers, tolerate rude customers	
		calmly, and search for information or	
		products for customers.	
Optional	Sales Potential	Designed to predict the likelihood that	23
		candidates will suggest or show	•
		alternative solutions based on	
		customer needs, direct conversation	
		toward a commitment/ order/ sale,	
		show confidence even after a hard	
		refusal/rejection, and strive to close a	
		transaction every time.	

Solution Component Selection 30 Minutes Required Sales Focus Designed to predict the likelihood that candidates will suggest or show alternative solutions based on customer needs, direct conversation toward a commitment/ order/ sale, show confidence even after a hard refusal/rejection, and strive to close a transaction every time. Customer Focus Designed to predict the likelihood that candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences to customers, be patient with	
Selection 30 Minutes Designed to predict the likelihood that candidates will suggest or show alternative solutions based on customer needs, direct conversation toward a commitment/ order/ sale, show confidence even after a hard refusal/rejection, and strive to close a transaction every time.	
Required Sales Focus Designed to predict the likelihood that candidates will suggest or show alternative solutions based on customer needs, direct conversation toward a commitment/ order/ sale, show confidence even after a hard refusal/rejection, and strive to close a transaction every time. Customer Focus Designed to predict the likelihood that candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences	
candidates will suggest or show alternative solutions based on customer needs, direct conversation toward a commitment/ order/ sale, show confidence even after a hard refusal/rejection, and strive to close a transaction every time. Customer Focus Designed to predict the likelihood that candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences	
alternative solutions based on customer needs, direct conversation toward a commitment/ order/ sale, show confidence even after a hard refusal/rejection, and strive to close a transaction every time. Customer Focus Designed to predict the likelihood that candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences	
customer needs, direct conversation toward a commitment/ order/ sale, show confidence even after a hard refusal/rejection, and strive to close a transaction every time. Customer Focus Designed to predict the likelihood that candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences	
toward a commitment/ order/ sale, show confidence even after a hard refusal/rejection, and strive to close a transaction every time. Customer Focus Designed to predict the likelihood that candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences	
show confidence even after a hard refusal/rejection, and strive to close a transaction every time. Customer Focus Designed to predict the likelihood that candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences	
refusal/rejection, and strive to close a transaction every time. Customer Focus Designed to predict the likelihood that candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences	
transaction every time. Customer Focus Designed to predict the likelihood that candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences	
Customer Focus Designed to predict the likelihood that candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences	
candidates will show persistent enthusiasm in customer interaction, apologize sincerely for inconveniences	
enthusiasm in customer interaction, apologize sincerely for inconveniences	
apologize sincerely for inconveniences	
to customers, be patient with	
la casternaria, ao hamana	
customers, tolerate rude customers	
calmly, and search for information or	
products for customers.	
Working with This component is designed to predict 30	
Information success in customer service call- (15 minute til	mer)
center jobs by assessing a candidate's	
ability to retrieve information and use it	
in order to solve problems.	

Table Six may be used for jobs in sales:

		Table SixSales Solutions	
	Solution	Definition	Items
	Component		
Screening	g 10 - 14 minute	es	
Required	Educational and	Measures potential for success in	15
	Work-Related	customer service jobs. Scores on	
	Experience	Education and Work-Related	
		Experience are derived from	
		candidates responses to questions	
		regarding developmental influences,	
		self-esteem, work history and work-	
		related values and attitudes.	
	Sales Potential	Designed to predict the likelihood that	23
		candidates will suggest or show	
		alternative solutions based on	
		customer needs, direct conversation	
		toward a commitment/ order/ sale,	
		show confidence even after a hard	
		refusal/rejection, and strive to close a	
		transaction every time.	

	Table SixSales Solutions				
	Solution	Definition	Items		
	Component				
Optional	Customer	Designed to predict the likelihood that	20		
	Service	candidates will show persistent			
	Orientation	enthusiasm in customer interaction,			
		apologize sincerely for inconveniences			
		to customers, be patient with			
		customers, tolerate rude customers			
•		calmly, and search for information or			
		products for customers.			
-					
Selection	10 - 25 - 40 Mi	inutes			
Required	Sales Focus	Designed to predict the likelihood that	60		
		candidates will suggest or show			
		alternative solutions based on			
		customer needs, direct conversation			
		toward a commitment/ order/ sale,			
		show confidence even after a hard			
		refusal/rejection, and strive to close a			
		transaction every time.			
Optional	Problem Solving	Measures the tendency to efficiently	10		
		and effectively use numerical and			
		analytical reasoning. This competency			
		is characterized by the ability to solve			
		complex problems, and make			
		reasoned decisions.			

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Table SixSales Solutions			
	Solution Component	Definition	Items
Optional	Communication	Measures the tendency to efficiently and effectively use verbal reasoning. This competency is characterized by the ability to verbally explain complex information to others.	

Table Seven may be used for supervisory jobs:

	Table SevenSupervisory Solutions				
	Solution	Definition	Items		
	Component				
Screening	10 - 20 Minutes				
Required	Supervisory	Measures potential for supervisory	10		
	Potential	success across industry type and			
		functional area. Scores on			
		Supervisory Potential are derived			
		from candidates' responses to			
		questions regarding academic and			
		social background, and aspirations			
		concerning work.			
	Judgment	Measures potential for making good	10		
		judgments about how to effectively			
		respond to work situations. Scores			
		on Judgment are derived from			
		candidates' responses to questions			
		regarding situations one would likely			
		encounter as a manager/			
		supervisor.			
Optional	Leadership/	Measures potential for success as a	19		
:	Coaching	supervisor. This is done by having			
	Teamwork/	applicants' make judgments about			
	Interpersonal Skills	the most effective teamwork and			
		leadership behaviors in specific			
		work situations. Scores are			
		determined by comparing their			
0		response profiles to the profiles of			
		supervisors who are known to be			
		successful.			

	Table SevenSupervisory Solutions			
	Solution	Definition	items	
	Component		<u> </u>	
Selection	22 - 37 - 52 Mins	3		
Required	Business	Measures the candidate's thinking	28	
	Leadership	styles. High scorers are likely to		
		have or learn good planning and		
		organizing skills, be innovative,		
		consider issues from multiple		
		perspectives, and create strategies		
		to build their business.		
Required	Leadership	Measures the candidate's desire for	23	
	Motivation	achievement, drive, initiative, energy		
		level, willingness to take charge,		
Ì		and persistence. High scorers are		
		likely to be highly motivated to		
		succeed and to set challenging		
		goals for themselves and others.		
.	Self-Leadership	Measures the candidate's ability to	32	
		control emotions, act with integrity,		
		take responsibility for actions, and	,	
		tolerate stress. High scorers are		
		also likely to have a positive attitude,		
		be optimistic about the future, and		
		demonstrate high levels of		
		professionalism.		

Table SevenSupervisory Solutions			
	Solution Definition	Items	
	Component		
Selection	22 - 37 - 52 Mins	(cont.)	
	Interpersonal	Measures the candidate's	30
	Leadership	interpersonal characteristics. High	
		scorers are likely to persuade and	
		influence others, gain commitment,	
		and build effective interpersonal	
		relationships. They also have	
		potential to develop skills in the	
		areas of employee relations,	
		coaching, motivating, and leading a	
		team.	
Optional	Decision	Measures the tendency to efficiently	10
	Making/Problem	and effectively use numerical and	
	Solving	analytical reasoning. This	
		competency is characterized by the	
		ability to solve complex problems,	
		and make reasoned decisions.	•
Optional	Communication	Measures the tendency to efficiently	10
		and effectively use verbal reasoning.	•
		This competency is characterized by	
		the ability to verbally explain	
		complex information to others.	

Table Eight may be used for professional jobs:

Table EightProfessional Solutions				
	Solution Definition		Items	
	Component			
Screening	7 - Minutes			
Required	Dependability	This competency is characterized by: a	40	
		willingness to behave in expected and		
		agree upon ways; following through on		
		assignments and commitments; keep		
		promises; and accept the	•	
		consequences of one's own actions.		
	Interpersonal	This competency is indexed by a		
	Skills	tendency to be pleasant, cooperative,		
		and helpful when working with others,		
		as well as flexible in conflict resolution		
		situations.		
ļ	Self-Control	This competency is characterized by		
		the ability to: stay calm and collected		
		when confronted with adversity,		
		frustration, or other difficult situations;		
		and avoid defensive reactions or hurt		
		feelings as a result of others'		
		comments.		
	Energy	This competency is characterized by a		
		preference to stay busy, active, and		
		avoid inactive events or situations.		

Table EightProfessional Solutions				
Solution	Definition	Items		
Component				
35 - 50 Minute	es			
Business	Measures the candidate's thinking	32		
Leadership	styles. High scorers are likely to have			
	or learn good planning and organizing			
	skills, be innovative, consider issues			
	from multiple perspectives, and create			
	strategies to build their business.			
Leadership	Measures the candidate's desire for	35		
Motivation	achievement, drive, initiative, energy			
	level, willingness to take charge, and			
	persistence. High scorers are likely to			
	be highly motivated to succeed and to			
	set challenging goals for themselves			
	and others.			
Self-Leadership	Measures the candidate's ability to	34		
	control emotions, act with integrity,			
	take responsibility for actions, and			
	tolerate stress. High scorers are also			
	likely to have a positive attitude, be			
	optimistic about the future, and			
	demonstrate high levels of			
	professionalism.			
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,				
	Solution Component 35 - 50 Minute Business Leadership Leadership Motivation	Solution Component 35 - 50 Minutes Business Leadership Styles. High scorers are likely to have or learn good planning and organizing skills, be innovative, consider issues from multiple perspectives, and create strategies to build their business. Leadership Motivation Measures the candidate's desire for achievement, drive, initiative, energy level, willingness to take charge, and persistence. High scorers are likely to be highly motivated to succeed and to set challenging goals for themselves and others. Self-Leadership Measures the candidate's ability to control emotions, act with integrity, take responsibility for actions, and tolerate stress. High scorers are also likely to have a positive attitude, be optimistic about the future, and demonstrate high levels of		

Table EightProfessional Solutions				
	Solution	Definition	Items	
	Component			
Selection	35 - 50 Minute	es (cont.)		
	Interpersonal	Measures the candidate's	41	
	Leadership	interpersonal characteristics. High		
		scorers are likely to persuade and		
		influence others, gain commitment,		
		and build effective interpersonal		
		relationships. They also have		
		potential to develop skills in the areas		
		of employee relations, coaching,		
		motivating, and leading a team.		
	Decision	Measures the tendency to efficiently	10	
	Making/Problem	and effectively use numerical and		
	Solving	analytical reasoning. This competency		
		is characterized by the ability to solve		
		complex problems, and make		
		reasoned decisions.		
Optional	Communication	Measures the tendency to efficiently	10	
		and effectively use verbal reasoning.		
		This competency is characterized by		
		the ability to verbally explain complex		
		information to others.		

Table Nine may be used for managerial jobs:

Table NineManagerial Solutions Solution Definition Items				
		Deminuon	items	
	Component			
Screening				
Required	Management	Measures potential for managerial	10	
	Potential	success across industry type and		
		functional area. Scores on Management		
		Potential are derived from candidates'		
		responses to questions regarding		
		academic and social background, and		
		aspirations concerning work.		
	Judgment	Measures potential for making good	10	
		judgments about how to effectively		
		respond to work situations. Scores on		
		Judgment are derived from candidates'		
		responses to questions regarding	,	
		situations one would likely encounter as		
		a manager/supervisor.		
Optional	Self-Confidence	This component references: belief in	10	
		one's own abilities and skills and a		
		tendency to feel competent in several		
		areas.		
	Decision Making	Measures potential for success as a		
		manager. This is done by having		
		applicants' make judgments about the		
		most effective decisions in specific work		
		situations. Their potential is determined		
		by comparing their response profiles to		
		the profiles of successful managers.		

Table NineManagerial Solutions				
	Solution	Definition	Items	
	Component			
Selection	20 - 35 - 50 M	ins		
Required	Business	Measures the candidate's thinking	32	
	Leadership	styles. High scorers are likely to have		
		or learn good planning and organizing		
		skills, be innovative, consider issues		
		from multiple perspectives, and create		
		strategies to build their business.		
	Leadership	Measures the candidate's desire for	35	
	Motivation	achievement, drive, initiative, energy		
		level, willingness to take charge, and		
		persistence. High scorers are likely to		
		be highly motivated to succeed and to		
		set challenging goals for themselves		
		and others.		
	Self-Leadership	Measures the candidate's ability to	34	
		control emotions, act with integrity, take		
		responsibility for actions, and tolerate		
		stress. High scorers are also likely to		
		have a positive attitude, be optimistic		
		about the future, and demonstrate high		
		levels of professionalism.		
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Table NineManagerial Solutions			
	Solution	Definition	Items
	Component		
Selection	20 - 35 - 50 M	ins (cont.)	
	Interpersonal	Measures the candidate's	41
	Leadership	interpersonal characteristics. High	
		scorers are likely to persuade and	
		influence others, gain commitment,	
		and build effective interpersonal	
		relationships. They also have potential	
		to develop skills in the areas of	
		employee relations, coaching,	
		motivating, and leading a team.	
Optional	Decision	Measures the tendency to efficiently	10
	Making/Problem	and effectively use numerical and	
	Solving	analytical reasoning. This competency	
		is characterized by the ability to solve	
		complex problems, and make	
		reasoned decisions.	
Optional	Communication	Measures the tendency to efficiently	10
		and effectively use verbal reasoning.	
		This competency is characterized by	
		the ability to verbally explain complex	
		information to others.	

Table Ten may be used for technical/professional jobs:

	Solution Definition		
	Component		
Screening			
Required	Dependability	This competency is characterized by: a	40
•		willingness to behave in expected and	
	,	agree upon ways; following through on	
		assignments and commitments; keeping	
		promises; and accepting the	
		consequences of one's own actions.	
-	Interpersonal	This competency is indexed by a	
	Skills	tendency to be pleasant, cooperative,	
		and helpful when working with others, as	
		well as flexible in conflict resolution	
		situations.	
	Self-Control	This competency is characterized by the	
		ability to: stay calm and collected when	
		confronted with adversity, frustration, or	
		other difficult situations; and avoid	
		defensive reactions or hurt feelings as a	
		result of others' comments.	
	Energy	This competency is characterized by a	
		preference to stay busy, active, and	
•		avoid inactive events or situations.	
		•	

	Table TenTechnical-Professional Solutions		
	Solution	Definition	Items
	Component		
Selection	35 - 50 Minute	es	
Required	Business	Measures the candidate's thinking	32
	Leadership `	styles. High scorers are likely to have	
		or learn good planning and organizing	
		skills, be innovative, consider issues	
		from multiple perspectives, and create	
		strategies to build their business.	
	Leadership	Measures the candidate's desire for	35
	Motivation	achievement, drive, initiative, energy	
	:	level, willingness to take charge, and	
		persistence. High scorers are likely to	
	,	be highly motivated to succeed and to	
		set challenging goals for themselves	
		and others.	
	Self-Leadership	Measures the candidate's ability to	34
		control emotions, act with integrity,	
		take responsibility for actions, and	
		tolerate stress. High scorers are also	
		likely to have a positive attitude, be	
		optimistic about the future, and	
		demonstrate high levels of	
٠		professionalism,	
			a

	Table TenTechnical-Professional Solutions		
	Solution	Definition	Items
	Component		
Selection	35 - 50 Minute	es (cont.)	
	Interpersonal	Measures the candidate's	41
	Leadership	interpersonal characteristics. High	
		scorers are likely to persuade and	
		influence others, gain commitment,	
		and build effective interpersonal	
		relationships. They also have	
		potential to develop skills in the areas	
		of employee relations, coaching,	
		motivating, and leading a team.	
	Decision	Measures the tendency to efficiently	10
	Making/Problem	and effectively use numerical and	
	Solving	analytical reasoning. This competency	
		is characterized by the ability to solve	
:		complex problems, and make	
		reasoned decisions.	
Optional	Communication	Measures the tendency to efficiently	10 .
		and effectively use verbal reasoning.	
		This competency is characterized by	
		the ability to verbally explain complex	
		information to others.	

Table Eleven may be used for executive positions:

	Tab	le ElevenExecutive Solutions	
	Solution Definition It		
	Component		
Screening	20 Minutes		
Required	Executive	Measures potential for success in	53
	Potential	high-level organizational positions	
		across industry type and functional	
		area. Scores on Executive Potential	
		are derived from candidates'	
		responses to questions regarding work	
		background, accomplishments, and	
		career aspirations.	
Selection	35 - 50 Minute	es	
Required	Business	Measures the candidate's thinking	32
	Leadership	styles. High scorers are likely to have	
		or learn good planning and organizing	
		skills, be innovative, consider issues	
		from multiple perspectives, and create	
		strategies to build their business.	
	Leadership	Measures the candidate's desire for	35
	Motivation	achievement, drive, initiative, energy	
		level, willingness to take charge, and	
		persistence. High scorers are likely to	
		be highly motivated to succeed and to	
j		set challenging goals for themselves	
		and others.	
ļ	Self-Leadership	Measures the candidate's ability to	34
		control emotions, act with integrity,	
		take responsibility for actions, and	
	•	tolerate stress. High scorers are also	

	Tab	ole ElevenExecutive Solutions	
	Solution	Definition	Items
	Component		
		likely to have a positive attitude, be	
		optimistic about the future, and	
		demonstrate high levels of	
		professionalism.	
	Interpersonal	Measures the candidate's	41
	Leadership	interpersonal characteristics. High	
		scorers are likely to persuade and	
		influence others, gain commitment,	
		and build effective interpersonal	
		relationships. They also have	
		potential to develop skills in the areas	
		of employee relations, coaching,	
		motivating, and leading a team.	
	Decision	Measures the tendency to efficiently	10
	Making/Problem	and effectively use numerical and	
	Solving	analytical reasoning. This competency	
•		is characterized by the ability to solve	
		complex problems, and make	
		reasoned decisions.	
Optional	Communication	Measures the tendency to efficiently	10
•		and effectively use verbal reasoning.	
		This competency is characterized by	
		the ability to verbally explain complex	
		information to others.	

Table Twelve may be used for jobs involving campus recruiting:

	Table Twe	elveCampus Recruiting Solutions		
	Solution Definition			
	Component			
Screening	12 Minutes			
Required	Supervisory	Measures potential for supervisory	26	
	Potential	success across industry type and		
		functional area. Scores on Supervisory		
		Potential are derived from candidates'		
		responses to questions regarding		
		academic and social background, and		
i i		aspirations concerning work.		
	Judgment	Measures potential for making good		
		judgments about how to effectively		
		respond to work situations. Scores on		
		Judgment are derived from candidates'		
		responses to questions regarding		
		situations one would likely encounter		
		as a manager/supervisor.		
	Management	Measures potential for managerial		
	Potential	success across industry type and		
		functional area. Scores on		
		Management Potential are derived		
		from candidates' responses to		
		questions regarding academic and		
		social background, and aspirations		
		concerning work.		
		·		

Table TwelveCampus Recruiting Solutions			
-	Solution	Definition	Items
	Component		
Selection	20 - 35 - 50 Min	s	
Required	Business	Measures the candidate's thinking	32
	Leadership	styles. High scorers are likely to	
		have or learn good planning and	
		organizing skills, be innovative,	
		consider issues from multiple	
		perspectives, and create strategies	
		to build their business.	
	Leadership	Measures the candidate's desire for	35
	Motivation	achievement, drive, initiative,	
		energy level, willingness to take	
		charge, and persistence. High	
		scorers are likely to be highly	
		motivated to succeed and to set	
		challenging goals for themselves	
		and others.	
	Self-Leadership	Measures the candidate's ability to	34
		control emotions, act with integrity,	
		take responsibility for actions, and	
		tolerate stress. High scorers are	
		also likely to have a positive	
		attitude, be optimistic about the	
		future, and demonstrate high levels	
		of professionalism.	

Table TwelveCampus Recruiting Solutions			
	Solution	Definition	Items
	Component		
Selection	20 - 35 - 50 Min	s (cont.)	
	Interpersonal	Measures the candidate's	41
	Leadership	interpersonal characteristics. High	
		scorers are likely to persuade and	
		influence others, gain commitment,	
		and build effective interpersonal	
		relationships. They also have	
		potential to develop skills in the	
		areas of employee relations,	
		coaching, motivating, and leading a	
		team.	•
Optional	Decision	Measures the tendency to efficiently	10
	Making/Problem	and effectively use numerical and	
	Solving	analytical reasoning. This	
		competency is characterized by the	
		ability to solve complex problems,	
		and make reasoned decisions.	
Optional	Communication	Measures the tendency to efficiently	10
		and effectively use verbal reasoning.	
		This competency is characterized by	
		the ability to verbally explain complex	
		information to others.	

Table Thirteen may be used for a selection solution for a job involving communication:

	Table Thirteen—Communication Solution			
	Solution	Definition	Items	
	Component			
Selection	37 Minutes			
Required	Listening	Measure of the tendency to listen to	73	
	Orientation	and understand others' perspectives,		
		to care for others, to accept and		
	·	respect the individual differences of		
		people, and to be open both to multiple	•	
		ideas and to using alternative modes		
		of thinking.		
	English	Measures usage of verb tense and		
	Language Skills	sentence construction. Scores on		
		English Language Skills are derived	·	
		from candidates responses to		
		grammar questions.		
	Verbal	Measures verbal reasoning skills and		
	Reasoning/	critical thinking/ reasoning skills.		
	Critical Thinking	Scores on Verbal Reasoning Ability		
		are derived from candidates'		
		responses to analogies and questions		
		about information provided in brief		
		reading passages.		

Table Fourteen may be used for a selection solution for a job involving financial services jobs referred to series six/seven:

	Table FourteenSeries Six/Seven Success Solution			
	Solution	Solution Definition		
	Component			
Selection	36 Minutes			
Required	Problem Solving	Measures the ability to analyze and	20	
		evaluate information. Scores on		
		Problem Solving are derived from		
		candidates' responses to mathematical		
		and analytical reasoning items,		
		requiring candidates to respond to		
		facts and figures presented in various		
:		formats.		
•	Verbal	Measures verbal reasoning skills and		
	Reasoning/	critical thinking/ reasoning skills.		
	Critical Thinking	Scores on Verbal Reasoning Ability		
÷		are derived from candidates'		
		responses to analogies and involves		
		making inferences from information		
		provided in the form of brief passages		

Table Fifteen may be used for a selection solution for a job requiring information technology aptitude:

-	Table FifteenInformation Technology Aptitude Solution		
	Solution	Definition	Items
	Component		
Selection	18 Minutes		
Required	Critical Thinking	Measure reasoning and critical thinking	58
		skills. Scores on Critical Thinking are	
		derived from candidates' responses to	
		information provided in the form of	
		brief passages.	
	Problem Solving	Measure the ability to analyze and	
		evaluate information. Scores on	
		Problem Solving are derived from	
		candidates' responses to mathematical	
		and analytical reasoning items,	
		requiring candidates to respond to	
		facts and figures presented in various	
		scenarios.	
	Communication	Measures the ability to efficiently use	•
		verbal information. Scores on	
		Communication are derived from	
		candidates' ability to identify	
		synonyms.	
	Spatial Ability	Measure the ability to visually	
		manipulate objects. Scores on Spatial	
		Ability are derived from candidates'	
		ability to correctly identify the number	
		of blocks in progressively difficult	
		figures.	

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Although the above disclosure has focused on recruiting applications, the generated data may be used in other human capital applications. Figure 13 illustrates a human capital management life-cycle. Measurement and data 1301 is initially used in the context of recruiting 1302. For recruiting 1302, screening, selection, and interview solutions measure applicants' competencies and predict on-the-job performance and thus contribution to business outcomes.

For compensation 1303, data about potential can be weighed against performance data to ensure that high potential employees who are on difficult assignments where they are structurally constrained from succeeding are not underpaid by pure focus on performance. For example, structural constraints may include business environment, poor staff, unreliable equipment, etc.

For retention 1304, business with jobs that have high turnover use the system to ensure that applicants have qualities that contribute to longer tenure in roles.

For performance management 1305, the system can be used to enhance the validity of employee performance evaluation.

For training and development 1306, a company may test current employees in order to design executive training programs addressing each individual's strengths and weaknesses. Or, for employees that took a test and were hired despite weaknesses, the data can be used to structure appropriate training.

For succession 1307, data on employees may be collected in the process of organization mergers to assist planning for retrenchment or change. Also, by measuring competencies and mapping them between roles, it is possible to assess the potential that an individual may have for a role other than the job they are currently holding, such as for a promotion or a transfer to another area.

The foregoing description is to be considered as illustrative only. The skilled artisan will recognize many variations and permutations within the spirit of the disclosure.